PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUT	HORITY			
To: AWAPATENT AB Platensgatan 9 C SE-582 20 LINKÖPING SWEDEN		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	0 9 -06- 2005	
Applicant's or agent's file reference		FOR FURTHER AC	TION See paragraph 2 below	
21018792 International application No. PCT/SE 2005/000310	International filing date 02.03.2005		Priority date (day/month/year) 03.03.2004	
International Patent Classification (IPC) F24C 7/06, F24H 3/04	or both national classific	ation and IPC	_	
Applicant FERGAS AB et al				
Box No. IV Lack of unity on Box No. V Reasoned states applicability, ci Box No. VI Certain documed Box No. VII Certain defects Box No. VIII Certain observational Box No. VIII Certain observational Preliminary Examining Authority other than this one to be IP written opinions of this International If this cognition is as provided above.	inion acent of opinion with regard finvention ment under Rule 43bis.10 itations and explanations ents cited in the international applications on the international array examination is made. Authority ("IPEA") excepts and the chosen IPEA Searching Authority will considered to be a writter appropriate, with amend expiration of 22 months in ISA/220.	rd to novelty, inventive (a)(i) with regard to not supporting such statem ication I application e, this opinion will be cept that this does not applicated the Internal not be so considered. In opinion of the IPEA, iments, before the expired.	considered to be a written opinion of the oply where the applicant chooses an national Bureau under Rule 66.1 bis(b) that the applicant is invited to submit to the ration of 3 months from the date of mailing	
Name and mailing address of the ISA/SE Patents och registreringsverket	:	Authorized officer		
Box 5055 S-102 42 STOCKHOLM		Marianne Di Telephone No. +46		
Facsimile No. +46 8 667 72 88		Telephone No. +40	· , · · · · · · · · · · · · · · · · · ·	

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE 2005/000310

Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2-6, 9, 11	YES
	Claims	1, 7-8, 10	NO NO
Inventive step (IS)	Claims		YES
- 1, -	Claims	1-11	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO NO

2. Citations and explanations:

Reference is made to the following document:

D1: GB996056 A

The claimed invention relates to a fan heater. Interacting members are provided on the heating element and on the blower fan in order to hold the heating element in position relative the blower fan. Claim 1 is worded to define a fan heater for an electrical fireplace. However, the claims do the features related technical include any cooperation with the electrical fireplace. Therefore, cooperation of the heating element and the blower fan is fireplace". Thus, independent of the "electrical expression "for an electrical fireplace" is not essential for the invention and is ignored. Also, as it says in the description, it is common knowledge to use fan heaters in electrical fireplaces.

D1 relates to a fan heater including a blower fan unit with an outlet duct. A unit with heating elements can be mounted to the outlet duct a by use of projections engaging slots in the wall of the duct, see page 3 lines 4-6. A person skilled in the art would design such projections to be resilient in order to build up snap lock members. Further, the previously known device is simple to fabricate and assemble (page 1 lines 35-39). The known solution also makes the parts simple to disassemble, in correspondence with the present invention.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE 2005/000310

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,V\,$

A fan heater as stated in claims 1 and 7, a heating element as stated in claim 8 and a blower fan as stated in claim 10 are previously known from D1 and lack novelty. Further, the dependent claims 2-6, 9 and 11 only reveal such features considered obvious to a skilled person. Therefore, the subject matter of claims 2-6, 9 and 11 lacks inventive step.

Form PCT/ISA/237 (Supplemental Box) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE 2005/000310

Box No. VIII Certain observations on the international application

The following observations on the claims, description, and drawing or on the question whether the claim are fully supported by the description, are made:

Claims 9 and 11 are incorrectly related to claim 6.

Form PCT/ISA/237 (Box No. VIII) (January 2004)



EUROPEAN SEARCH REPORT

Application Number EP 04 00 4971

ategory	Citation of document with	n indication, where appropriate,	Relevar	nt CLASSIFICA	TION OF THE
yury	of relevant pa		to claim		ON (Int.CI.7)
(GB 2 251 935 A (BA 22 July 1992 (1992	2-07-22)	1,6-8,	10 F24C7/04 F24H3/04	
′	figures 3-5 *	- page 6, line 11;	2-5,9,	11 F24H9/18	3
\	* page 9, lines 8- * page 6, line 6 *	-28 *	2,9,11		
	US 3 742 189 A (CC 26 June 1973 (1973 * column 2; claim	-06-26)	1,6-8,	10	
- 1	DE 12 12 703 B (BR 17 March 1966 (196 * column 5, lines		1,6-8,	10	
	US 2 986 622 A (BR 30 May 1961 (1961— * column 2; figure	05-30)	1,6-8,1	L O	
. 1	DE 39 08 512 A (MA 28 September 1989 * columns 5-6; fig	ICO ELEKTROAPPARATE) (1989-09-28) ures 1-3 *	1,6-8,1	TECHNICAL SEARCHED	
- 1:	US 4 737 616 A (WE 12 April 1988 (198 * figure 3 *	 N-YING LEE) B-04-12)	1,6-8,1	F24C F24H	
2	US 2 015 251 A (GE0 24 September 1935 (* figure 1 *		1,6-8,1	.0	
3	JS 5 513 296 A (GOI 30 April 1996 (1996 4 the whole documer	5-04-30)	1,6-8,1	o	
2	JS 4 703 153 A (PEL 27 October 1987 (19 4 the whole documen	87-10 - 27)	1,6-8,1	0	
		-/			•
7	The present search report has	been drawn up for all claims			
F	Place of search	Date of completion of the search		Examiner	
· M	lunich	14 July 2004	. Me	rkt, A	
: particu ': particu	EGORY OF CITED DOCUMENTS larly relevant if taken alone larly relevant if combined with anolent of the same category	E : earlier palent after the filing her D : document cit	ciple underlying the document, but put a date ed in the application of for other reason	blished on, or n	



EUROPEAN SEARCH REPORT

Application Number EP 04 00 4971

ategory	Citation of document with	DERED TO BE RELEVANT indication, where appropriate,	Relevant	CLASSIFICATION OF THE
	of relevant pas	ssages	to claim	APPLICATION (Int.CI.7)
′	US 5 443 364 A (MI 22 August 1995 (19	STRY MAYANK C ET AL)	2-5,9,11	
		95-08-22) 1 - column 5, line 19;		
	figures 3-5 *	, , , , , , , , , , , , , , , , ,		
]	IIS 4 809 593 A (AS	SELBERGS CHRISTOPHE K J)	2-5 9 11	
	7 March 1989 (1989	-03-07)	2 3,3,11	
j	* column 2, lines :	29-46; figure 3 *		
1				
] }	
.		•		·
		•		
		•		TECHNICAL FIELDS
.	•		!	SEARCHED (Int.C1.7)
]	•		1 1	
- 1		·	1	
				-
	•			
				•
		٠.		
. 7	he present search report has t	een drawn up for all claims		
	Tace of search	Date of completion of the search		Examiner
'- M	unich	14 July 2004	Merk	
CAT	EGORY OF CITED DOCUMENTS	T: theory or principle	underlying the inv	ention
: particul	arly relevant if taken alone arly relevant if combined with anoth ant of the same category	E : earlier patent docu	rment, but publish the application	ed on, or
: technol	ogical background fitten disclosure			

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 04 00 4971

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-07-2004

ci	Patent document ted in search report	rt	Publication date		Patent family member(s)	Publication date
GE	2251935	Α	22-07-1992	IE	914515 A1	01-07-1992
US	3742189	A .	26-06-1973	AU BE CH DE FR GB IE IT LU NL ZA	4681072 A 789017 A2 539246 A 2245861 A1 2154144 A5 1366791 A 36717 B1 967624 B 66121 A1 7212671 A 7206334 A	28-03-1974 20-03-1973 15-07-1973 29-03-1973 04-05-1973 11-09-1974 02-02-1977 11-03-1974 17-01-1973 22-03-1973 27-06-1973
DE	1212703	В	17-03-1966	NONE		
US	2986622	Α	30-05-1961	NONE		
DE	3908512	Α	28-09-1989	DE DE	3908512 A1 8903234 U1	28-09-1989 13-07-1989
US	4737616	Α	12-04-1988	NONE		
US	2015251	Α	24-09-1935	NONE		
US	5513296	A	30-04-1996	US	RE37642 E1	09-04-2002
US	4703153	, A	27-10-1987	NONE	·	
us	5443364	Α	22-08-1995	NONE		<u></u>
US	4809593	Α	07-03-1989	CA	1268161 A1	24-04-1990

For more details about this annex.: see Official Journal of the European Patent Office, No. 12/82